LIBRARY
APR 5 1962
University of Saskatchewan

SB
599
.P7A2

Plant Pathology

A record of current work on plant diseases and pests

INDEX
VOLUME 10, 1961

Author: *pages* ii-iii

Subject: *pages* iv-vii

LONDON: HER MAJESTY'S STATIONERY OFFICE

AUTHOR INDEX

ALLAN, R. M. (*joint author*), see Shaw, M. W., 110-5.

AUSTIN, W. G. L. (*joint author*), see Edney, K. L., 10-13.

BAKER, JUNE V. A Method of Assessment of Apple Powdery Mildew, 32-7.

BASCOMB, C. L. (*joint author*), see Hirst, J. M., 105-8.

BECKER, P. Leek Moth occurring Inland, 42.

BEVAN, W. J. Observations on the Chemical Control of Pea Midge on Green Peas in Yorkshire, 133-9.

BOND, T. E. T. Tulip Break in 'Pride of Haarlem', 147-9.

BROWN, E. B. Linnet Damage to Strawberry Fruit, 41-2.

CARDEN, P. W. (*joint author*), see Williams, J. J. W., 85-95.

CATHERALL, P. L. and GRIFFITHS, ELLIS. Effects of Streak Virus on the Growth of Cocksfoot, 72-7.

COLHOUN, J., McELROY, G., and WARD, P. J. Wastage of Apples in Relation to the Wood used for Storage Boxes, 116-8.

CORKE, A. T. K. (*joint author*), see Edney, K. L., 10-13.

CROXALL, H. E., DAVEY, W. A., GWYNNE, D. C. and JOHNSON, W. Potato Blight Forecasting in Cumberland, 1953-57, 127-32.

DALE, W. T. Downy Mildew of Perpetual Strawberry, 124-5.

DAVEY, W. A. (*joint author*), see Croxall, H. E., 127-32.

DAVIES, H. (*joint author*), see Willey, L. A., 28-31.

DENNIS, E. B. Gout Fly Damage to Spring Wheat, 166.

DENNIS, E. B. Eelworm in Cineraria, 166.

DENNIS, E. B. and EDWARDS, C. A. Phytotoxicity of Insecticides and Acaricides. I. Foliage Sprays, 54-60.

DOLING, D. A. Glume Blotch in Wheat Varieties, 1958, 24-7.

DUDDINGTON, C. L., EVERARD, C. O. R. and DUTHOIT, CECILY, M. G. Effect of Green Manuring and a Predacious Fungus on Cereal Root Eelworm in Oats, 108-9.

DUNNING, R. A. Mangold Fly Incidence, Economic Importance and Control, 1-9.

DUTHOIT, CECILY M. G. Assessing the Activity of the Field Slug in Cereals, 165.

DUTHOIT, CECILY, M. G. (*joint author*), Duddington, C. L., 108-9.

EDNEY, K. L., AUSTIN, W. G. L., CORKE, A. T. K. and HAMER, P. S. Effect of Winter Spraying on Rotting of Stored Apples by *Gloeosporium* spp., 10-13.

EDWARDS, C. A. and GUNN, E. B. Control of the Glasshouse Millepede, 21-4.

EDWARDS, C. A. (*joint author*), see Dennis, E. B., 54-60.

EMPSON, D. W. *Brevipalpus obovatus* Donnadieu in Staffordshire, 126.

EVERARD, C. O. R. (*joint author*), see Duddington, C. L., 108-9.

EVERETT, H. F. M. (*joint author*), see Gray, Elizabeth G., 123-4, 168.

FALCONER, MARGARET A. (*joint author*), see Wilcox, H. J., 124.

GIBBS, A. J. and TINSLEY, T. W. Lucerne Mosaic Virus in Great Britain, 61-2.

GLYNNE, MARY, D. and MOORE, F. JOAN. *Melanospora damnosa* associated with *Fusarium culmorum* on Cereals, 168.

GOULD, H. J. Observations on Slug Damage to Winter Wheat in East Anglia, 1957-59, 142-6.

GRAY, ELIZABETH G. and EVERETT, H. F. M. Fungi on Highbush Blueberries, 123-4, 168.

GRIFFITHS, ELLIS (*joint author*), see Catherall, P. L., 72-7.

GUNN, E. (*joint author*), see Edwards, C. A., 21-4.

GWYNNE, D. C. (*joint author*), see Croxall, H. E., 127-32.

HAMER, P. S. (*joint author*), see Edney, K. L., 10-13.

HESLING, J. J. Problems in the Routine Hot-Water Treatment of Chrysanthemum Stools, 139-41.

HIRST, J. M., LE RICHE, H. H. and BASCOMB, C. L. Copper Accumulation in the Soils of Apple Orchards near Wisbech, 105-8.

HOWLES, R. Inactivation of Tomato Mosaic Virus in Tomato Seeds, 160-1.

HULL, R. Sugar Beet Yellows in Great Britain, 1960, 149-50.

HUNNAM, D. and WADDINGTON, P. Factors Affecting the Phytotoxicity of Metham-Sodium to Tomatoes, 118-21.

INKSON, R. H. E. (*joint author*), see Shaw, M. W., 110-5.

JHA, ASHARFI (*joint author*), see Pitcher, R. S., 67-71.

JOHNSON, W. (*joint author*), see Croxall, H. E. 127-32.

LAIDLAW, W. M. R. Extracting Barley Embryos for Loose Smut Examination, 63-5.

LAPWOOD, D. H. Sporulation of Blight on Potato Tubers within Ridges, 40.

LARGE, E. C. and WAINES, RACHEL, A. Extent of Protective Spraying and Haulm Destruction on Potato Crops in Great Britain, 1952-60, 96-100.

LE RICHE, H. H. (*joint author*), see Hirst, J. M., 105-8.

MCELROY, G. (*joint author*), see Colhoun, J., 116-8.

METEOROLOGICAL OFFICE. The Weather of England and Wales, 38-9, 122-3.

MILNE, R. G. (*joint author*), see Selman, I. W., 100-4.

MOORE, F. JOAN (*joint author*), see Glynne, Mary D., 168.

MOORE, M. H. A Bud-rot and Twig-canker Disease of Cultivated Hazel, 167.

MORGAN, W. (*joint author*), see Willey, L. A., 28-31.

PARRY-WILLIAMS, J. R. Frit Fly in Maize, 125.

PERIES, O. S. Overwintering of *Sphaerotheca humuli* on Strawberry Plants, 65-6.

PITCHER, R. S. and JHA ASHARFI. On the Distribution and Infectivity with Arabis Mosaic Virus of a Dagger Nematode, 67-71.

PREECE, T. F. and SMITH, L. P. Apple Scab Infection Weather in England and Wales, 1956-60, 43-51.

PREECE, T. F. Scabbed Wood on Bramley's Seedling Apple, 39-40.

PREECE, T. F. Spraying Practice and the Control of Apple Scab on Cox's Orange Pippin and Bramley's Seedling in England, 1958-60, 151-8.

PREECE, T. F. Spring Rainfall and Apple Scab in England, 1915-60, 52-3.

ROSSER, W. R. Damping-off of Antirrhinum Seedlings by *Phyllosticta antirrhini*, 126.

SELMAN, I. W. and MILNE, R. G. A New Local Lesion Assay Method for Tomato Spotted Wilt Virus, with a note on Cyclical Changes in Infectivity, 100-4.

SHAW, M. W., ALLAN, R. M. and INKSON, R. H. E. Trials on Carrot Fly Control in North-east Scotland, 1956-58, 110-5.

SMART, N. A. Arylmercury Spray Residues in Apples, 158-60.

SMITH, L. P. (*joint author*), see Preece, T. F., 43-51.

SOUTHEY, J. F. Root-knot Eelworm on Nursery Plants, 41.

STANILAND, L. N. Trials of Fluorescent Tracers for Insecticides in Soil, 78-84.

STONE, L. E. W. Oats as a Trap-Crop for Cereal Root Eelworm, 164.

TALBOYS, P. W. Time-Temperature Requirements for Killing *Verticillium Albo-atrum* in Hop Bine, 162-3.

TINSLEY, T. W. (*joint author*), see Gibbs, A. J., 61-2.

WADDINGTON, P. (*joint author*), see Hunnam, D., 118-21.

WAINES, RACHEL, A. (*joint author*), see Large, E. C., 96-100.

WARD, P. J. (*joint author*), see Colhoun, J., 116-8.

WAY, M. J. Bean Aphid Control on Field Beans in Relation to the Flowering Period and to Honey Bee Poisoning, 14-20.

WILCOX, H. J. Downy Mildew of Chrysanthemum, 40-1.

WILCOX, H. J. and FALCONER, MARGARET A. Leaf spot of Chrysanthemum caused by *Septoria obesa*, 124.

WILLEY, L. A., DAVIES, H. and MORGAN, W. Resistance of Varieties of Swede to Club Root, 28-31, 168.

WILLIAMS, J. J. W., and CARDEN, P. W. Cabbage Stem Flea Beetle in East Anglia, 85-95.

WINFIELD, A. L. Cabbage Root-fly attacking the Growing Points of Mustard, 167.

SUBJECT INDEX

Acrolepia assectella, 42.

Acyrthosiphon pisum, 62.

Agriolimax reticulatus, 142, 165.

Aldrin:
- Distribution in soil, shown by fluorescent tracers, 82.
- For Control of Glasshouse Millepede, 22.
- Phytotoxic Dosages, 58.

Antirrhinums: Damping-off of Seedlings by *Phyllosticta antirrhini*, 126.

Antirrhinum majus, 126.

Aphelenchoides ritzemabosi, 139, 166.

Aphis fabae, 7, 14, 149.

Apodemus sylvaticus, 165.

Apples:
- Arylmercury Spray Residues in, 158.
- Copper accumulation in Orchard Soils, 105.
- Damage caused by unseasoned *Thuja* wood, 117.
- Distribution of Apple growing in England and Wales, 152.
- Effect of winter spraying on *Gloeosporium* rots in store, 10.
- Method of assessment of Apple Powdery Mildew, 32.
- Seasonal Development of Mildew, 37.
- Wastage in relation to Wood used for Storage Boxes, 116.

Apple Scab:
- Infection Weather in England and Wales, 1956-60, 43.
- Scabbed Wood on Bramley's Seedling, 39.
- Spraying Practice and the Control of Scab on Cox's Orange Pippin and Bramley's Seedling in England, 1958-60, 151.
- Spring Rainfall and Apple Scab in England, 1915-60, 52.

Arion circumscriptus, 142.

Arion hortensis, 142.

Arsenites; Use for Potato Haulm Destruction, 99.

Barley:
- Extracting Embryos for Loose Smut Examination, 63.
- *Melanospora damnosa* with *Fusarium culmorum*, 168.

Bean Aphid Control in relation to Honey Bee Poisoning, 14.

Beans:
- Lucerne Mosaic Virus in, 61.
- Phytotoxicity of Pesticides on, 54.

Bees: Conditions of injury in spraying field beans for Aphid Control, 14.

Berberis sp. 41.

Bordeaux Mixture, for the Control of Apple Scab, 105.

Botrytis tulipae, 147.

Brassica juncea, 167.

Brevipalpus obovatus, 126.

Cabbage:
- Biology and Control of Stem Flea Beetle, 85.
- Phytotoxicity of Pesticides on, 54.
- Stem Flea Beetle in East Anglia, 85.

Cabbage Root-fly attacking Mustard, 167.

Captan: Use against Apple Scab, 159.

Carrot Fly: Control Trials in North-east Scotland, 1956-58, 110.

Chenopodium amaranticolor, 62.

Chlorbenside: Phytotoxic Dosages, 58.

Chlordane, for the Control of Carrot Fly, 114.

Chlorobenzilate, for Control of *Brevipalpus obovatus*, 126.

Chlorops pumilionis, 166.

Chrysanthemums:
- Downy Mildew, 40.
- Leaf Spot caused by *Septoria obesa*, 124.
- Problems in the routine Hot-water Treatment of Stools, 139.

Chysanthemum leucanthemum, 41.

Cissus antarctica, 126.

Clematis sp., 41.

Clovers: Lucerne Mosaic Virus in, 61.

Club Root: Resistance of Swede Varieties, 28, 168.

Cocksfoot: Effects of Streak Virus on Growth, 72.

Coleseed: Control of Cabbage Stem Flea Beetle on, 89.

Contarinia pisi, 133.

Copper:
- Accumulation in Soils of Apple Orchards near Wisbech, 105.
- Fungicides for Control of Potato Blight, 97.

Crumenula urceolus, 124.

Cucumbers:
- Control of Millepedes on, 21.
- Phytotoxicity of Pesticides on, 54.

Dactylaria thaumasia, 108.

Dagger Nematode: Distribution and Infectivity with Arabis Mosaic Virus, 67; Host Ranges, 67.

DDT:
Distribution in soil, shown by fluorescent tracers, 83.
For the Control of:
Cabbage Stem Flea Beetle, 87.
Glasshouse Millepede, 22.
Leek Moth, 42.
Mangold Fly, 3.
Pea Midge, 134.
Phytotoxic Dosages, 58.

Demeton for Control of Aphids on Field Beans, 14.

Demeton-methyl:
For control of:
Aphids on Field Beans, 14.
Mangold Fly, 3.
Pea Midge, 136.
Sugar Beet Yellows, 150.
Phytotoxic Dosages, 58.

Diaporthe vaccinii, 123.

Diazinon for Control of:
Glasshouse Millipede, 22.
Pea Midge, 136.

Dieldrin:
For Control of:
Aphids on Field Beans, 14.
Cabbage Stem Flea Beetle, 87.
Carrot Fly, 111.
Glasshouse Millepede, 22.
Mangold Fly, 3.
Pea Midge, 134.
Phytotoxic Dosages, 58.

Dimethoate, for Control of:
Mangold Fly and Aphids on Sugar Beet, 7.
Pea Midge, 136.
Sugar Beet Yellows, 150.

Dipterex, for Control of Pea Midge, 134.

Disease Measurement:
Apple Powdery Mildew, 32.
Club Root of Swedes, 28.
Glume Blotch in Wheat, 26.
Metham-sodium Damage to Tomatoes, 119.
Tulip Break, 147.

Earthworms: Effect of Copper Spray Residues on, 107.

Eelworm:
A Dagger Nematode vector of Arabis Mosaic, 67.
Effect of Green Manuring and a Predacious Fungus, 108.
In Cineraria, 166.
Root-knot Eelworm on Nursery Plants, 41.

Elettaria cardamomum, 126.

Endrin, for Control of Carrot Fly, 114.

Erioischia brassicae, 167.

Euonymus europaeus, 15.

FAC/20, for Control of Mangold Fly, 3.

Fatshedera sp., 126.

Fenson: Phytotoxic Dosages, 58.

Fluorescent Tracers for Insecticides in Soils, 78; Sources of Ultra-Violet Light, 78.

Fluoroacetamide:
For Control of Sugar Beet Yellows, 150.
Phytotoxic Dosages, 58.

Forecasting:
Apple Scab, 43.
Potato Blight, 127; Criteria used at Farm Stations, 127.

Frit Fly, in Maize, 125.

Fusarium culmorum, 168.

Fusarium nivale, 27.

Fusicoccum putrefaciens, 123.

gamma-BHC:
For Control of:
Cabbage Stem Flea Beetle, 87.
Carrot Fly, 111.
Phytotoxic Dosage, 58.

Geranium molle, 41.

Gloeosporium sp., 10, 167.

Gloeosporium perennans, 10.

Godronia cassandrae, 124.

Gout Fly Damage to Spring Wheat, 166.

Harpalus rufipes, 42.

Hazel: a Bud-rot and Twig-canker Disease of, 167.

Hedera sp., 126.

Heterodera avenae, 108.

Heterodera rostochiensis, 164.

Highbush Blueberries, Fungi on, 123, 168.

Hops: Time-temperature requirements for Killing *Verticillium albo-atrum* in Bine, 162.

Hot Water Treatment of Chrysanthemum Stools, 139; Performance of Bath, 140.

Hyalopteroides humilis, 72.

Ivy: Damage by *Brevipalpus obovatus*, 126.

Kelthane: Phytotoxic Dosages, 58.

Leek-moth occurring Inland, 42.

Lettuce: Phytotoxicity of Pesticides on, 54.

Lime-sulphur, Use against Apple Scab, 159.

Lindane, for Control of Glasshouse Millepede, 22.

Linnet Damage to Strawberry Fruit, 41.
Lobelia cardinalis, 41.
Lonicera purpusii, 41.
Losses caused by:
Cabbage Stem Flea Beetle in Coleseed, 94.
Mangold Fly in Sugar Beet, 1.
Slugs in Winter Wheat, 145.
Sugar Beet Yellows, 149.
Lucerne Mosaic Virus in Great Britain, 61.
Lupin: Lucerne Mosaic Virus in, 61.

Macrosiphum euphorbiae, 72.
Maize, Frit Fly in, 125.
Malathion:
For Control of:
Mangold Fly, 4.
Pea Midge, 136.
Phytotoxic Dosages, 58.
Maneb, for Control of Potato Blight, 97.
Mangold Fly, Incidence, Economic Importance and Control, 1.
Matricaria inodora, 41.
Melanospora damnosa associated with *Fusarium culmorum* on Cereals, 168.
Meligethes sp., 14.
Meloidogyne hapla, 41.
Methyl isothiocyanate, 119.
Milax budapestensis, 142.
Milax gagates, 142.
Millepedes; Control of the Glasshouse Millepede, 21.
Mustard: Cabbage Root-fly attacking Growing Points of, 167.
Myzus persicae, 72, 149.

Naphthalene, for Control of Glasshouse Millepede, 22.
New or Uncommon Plant Diseases and Pests, 39, 123, 166.
Nicotiana glutinosa, 61.
Nicotiana rustica, 101.
Nicotiana tabacum, 100.
Nicotine, for Control of Glasshouse Millepede, 22.

Oats:
As a Trap-Crop for Cereal Root Eelworm, 164.
Effect of Green Manuring and a predacious Fungus on Cereal Root Eelworm in, 108.
Melanospora damnosa with *Fusarium culmorum*, 168.
Organo-mercury compounds, for control of *Gloeosporium* rots of apples, 11.
Organo-mercury Fungicides:
Arylmercury Spray Residues in Apples, 158.
Use against Apple Scab, 157.
Oscinella frit., 125.
Oxidus gracilis, 21.

Parathion:
For Control of:
Cabbage Stem Flea Beetle, 87.
Glasshouse Millepede, 22.
Mangold Fly and Aphids on Sugar Beet, 7.
Phytotoxic Dosages, 58.
Parsnips:
Phytotoxicity of Pesticides on, 54.
Peas:
Chemical Control of Pea Midge on Green Peas in Yorkshire, 133.
Lucerne Mosaic Virus in, 61.
Phytotoxicity of Pesticides on, 54.
Pegomyia betae, 1.
Penicillin expansum, 116.
Peperomia sp., 126.
Peronospora fragariae, 125.
Peronospora potentillae, 125.
Peronospora radii, 41.
Pestalotia, 124.
Pest Assessment:
Field Slugs in Cereals, 165.
Mangold Fly in Sugar Beet, 1.
Petunia hybrida, 100.
Phenkaptone: Phytotoxic Dosages, 58.
Phosdrin:
For Control of:
Glasshouse Millepede, 22.
Mangold Fly, 4.
Pea Midge, 136.
Phytotoxic Dosages, 58.
Phyllosticta antirrhini, 126.
Phytophthora infestans, 40, 96, 127.
Phytotoxicity:
Of Insecticides and Agaricides, I. Foliage Sprays, 54.
Of Metham-sodium to Tomatoes, 118.
Picea sitchensis, 116.
Plasmodiophora brassicae, 28, 31.
Podosphaera leucotricha, 32.
Potatoes:
Air Spraying, 98.
Blight Forecasting in Cumberland, 1953-57, 127.
Blight Progress Curves for Cumberland, 1953-57, 130.
Extent of Protective Spraying and Haulm Destruction on Crops in Great Britain, 1952-60, 96.
Mechanical Haulm Destruction, 98.
Sporulation of Blight on Tubers within Ridges, 40.

Psila rosae, 110.
Psylliodes chrysocephala, 85.

Residues:
Arylmercury in Apples, 158.
Copper in Orchard Soils, 107.
Rhoicissus rhomboidea, 126.
Rogor: Phytotoxic Dosages, 58.

Scotland: the Economic Plant Diseases of, by *C. E. Foister*, 115.
Senechio cruentis, 166.
Septoria chrysanthemella, 124.
Septoria nodorum, 24.
Septoria obesa, 124.
Sequoia sempervirens, 116.
Slugs:
Assessing the Activity of the Field Slug in Cereals, 165.
Damage to Winter Wheat, 142.
Sphaeroderma damnosum, 168.
Sphaerotheca humuli, 65.
Strawberries:
Arabis Mosaic, Host Range of Vectors, 70.
Damage by Seed Beetle, 42.
Downy Mildew of Perpetual Strawberry, 124.
Linnet Damage, 41.
Phytotoxicity of Pesticides on, 54.
Strawberry, Overwintering of *Sphaerotheca Humuli* on Strawberry Plants, 65.
Sugar Beet:
Acreages Sprayed against Aphids, 1955-60, 150.
Effect of defoliation on yield, 7.
Mangold Fly, Incidence and Control, 1.
Yellows in Great Britain, 149.
Sulphuric Acid, Use for Potato Haulm Destruction, 99.
Sulphur, Wettable or Colloidal, Use against Apple Scab, 159.
Surveys:
Apple Scab Spray Practice, 151.
Dagger Nematode Vector of Arabis Mosaic, 68.
Mangold Fly in Sugar Beet, 1.
Potato Spraying and Haulm Destruction, 96.
Slug Damage to Winter Wheat, 143.
Swedes:
Phytotoxicity of Pesticides on, 54.
Resistance of Varieties to Club Root, 28, 168.

Taraxacum officinale, 41.
Tar Oil, 11.
Tar Oil Fractions, Use for Potato Haulm Destruction, 98.
TEPP: Phytotoxic Dosages, 58.
Thiodan, for Control of Pea Midge, 136.
Thuja plicata, 116.
Tobacco: Lucerne Mosaic Virus in, 61.
Tomatoes:
Cyclical Changes in Infectivity, 100.
Factors affecting Phytotoxicity of Metham-sodium, 118.
Inactivation of Tomato Mosaic Virus in Seeds, 160.
Phytotoxicity of Pesticides on, 54.
Spotted Wilt Virus: Local Lesion Assay Method, 100.
Traps and Trapping:
Aphids on Field Beans, 17.
Carrot Fly, 112.
Field Slugs in Cereals, 165.
Slug in Wheat Fields, 142.
Trichlorphon for Control of Mangold Fly, 3.
Tulip Break in 'Pride of Haarlem,' 147.
Turnips: Control of Cabbage Stem Flea Beetle on, 89.

Ustilago nuda, 63.

Vaccinium corymbosum, 123.
Venturia inaequalis, 40, 43, 52, 105, 151, 158.
Verticillium albo-atrum, 162.
Viburnum cassinoides, 41.
Virus Diseases:
Arabis Mosaic, and a Dagger Nematode, 67.
Cocksfoot Streak, 72.
Lucerne Mosaic, 61.
Sugar Beet Yellows, 5, 149.
Tomato Mosaic, 160.
Tomato Spotted Wilt, 100.

Weather of England and Wales:
Spring and Summer, 1960, 38-9.
Autumn and Winter, 1960-61, 122-3.
Wheat:
Glume Blotch in Wheat Varieties, 24
Gout Fly Damage, 166.
Melanospora damnosa with *Fusarium culmorum*, 168.
Observations on Slug Damage to Winter Wheat in East Anglia, 1957-59, 142.
W.L. 1650, for Control of Pea Midge, 136.

Xiphinema diversicaudatum, 67.
Xiphinema index, 71.

Zineb for Control of Potato Blight, 97.